

ABSTRACT

5 A reconfigurable frequency selective surface (FSS) includes a plurality of conducting patches supported on the surface of a dielectric layer, with selectable electrical interconnections between the conducting patches so as to provide a desired characteristic. The reconfigurable FSS can be used in a reconfigurable artificial magnetic conductor (AMC). A reconfigurable AMC includes a dielectric layer, a conducting back-plane on one surface of the dielectric layer, and a reconfigurable FSS on the other surface of the dielectric layer. A reconfigurable AMC can be used as a dynamically reconfigurable ground plane for a low-profile antenna system.